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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,467	03/05/2004	Richard F. Wenstrom JR.	022956-256 (MIT-5027)	2466
21125 7590 03/18/2008 NUTTER MCCLENNEN & FISH LLP WORLD TRADE CENTER WEST 155 SEAPORT BOULEVARD BOSTON, MA 02210-2604			EXAMINER HOFFMAN, MARY C	
			ART UNIT 3733	PAPER NUMBER
			NOTIFICATION DATE 03/18/2008	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 10/708,467	Applicant(s) WENSTROM ET AL.	
	Examiner MARY HOFFMAN	Art Unit 3733	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 February 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3,5-18,34 and 35 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-3,5-18,34 and 35 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 10 August 2007 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02/20/2008 has been entered.

Claim Objections

Claims 6-7 are objected to because of the following informalities: In claim 6, lines 1-2, the claim recites "the angle between the cutting element and the longitudinal axis of the elongate member is less than 90 degrees. Upon comparison with the drawings, it appears that the angle between the distal facing surface of the cutting element and the longitudinal axis of the elongate member is less than 90 degrees. Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 5, 7-1, 14-15 and 34-35 are rejected under 35 U.S.C. 102(b) as being anticipated by Green et al. (U.S. Patent No. 6,409,730).

Green et al. disclose a tunnel notcher and guidewire delivery device, comprising an elongate member (FIG. 1) with proximal and distal ends and an inner lumen (ref. #9) extending therebetween, the inner lumen being adapted to receive a guidewire; and a cutting element disposed proximal to the distal end of the elongate member and adapted to remove bone within an opening of a bone tunnel, the cutting element being substantially wedge-shaped and extending radially outward from the elongate member. A distal portion of the distal end of the elongate member is substantially tapered. The cutting element is disposed proximal to the substantially tapered distal portion of the elongate member. The cutting element includes a distal-facing surface that is disposed at an acute angle with respect to a longitudinal axis of the elongate member. The angle between the cutting element and the longitudinal axis of the elongate member is less than 90°. The angle is in the range of about 20° to 70°. The cutting element includes a base portion coupled to the elongate member and a cutting edge positioned a distance apart from the elongate member. The cutting edge is positioned distal to the base portion. The cutting edge that is positioned a distance apart from the elongate member has a length that is less than a diameter of the elongate member. The cutting element is adapted to create a notch in bone having a substantially semi-circular shape. The device further comprising a handle (ref. #3) disposed on a proximal portion of the elongate member. The handle extends in a direction transverse to a longitudinal axis of

the elongate member. The cutting element has a substantially wedge-shaped such that a width of the cutting element increases in a proximal to distal direction.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3, 5-15 and 34-35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ruppert (US 571,400) in view of Scholl (U.S. Patent No. 6,110,175).

Ruppert discloses a tunnel notcher comprising an elongate member (FIGS. 1-2) with proximal (top end) and distal (bottom end) ends, and a cutting element (ref. #3) disposed proximal to the distal end of the elongate member and capable of removing bone within an opening of a bone tunnel, the cutting element being substantially wedge-shaped and extending radially outward from the elongate member. A distal portion (see FIG. 1 at ref. #2) of the distal end of the elongate member is substantially tapered. The cutting element is disposed proximal to the substantially tapered distal portion of the elongate member. The cutting element includes a distal-facing surface that is disposed at an acute angle with respect to a longitudinal axis of the elongate member. The distal-facing surface is substantially concave. The angle between the distally facing surface of the cutting element and the longitudinal axis of the elongate member is less than 90°.

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The angle is in the range of about 20° to 70°. The cutting element includes a base portion coupled to the elongate member and a cutting edge positioned a distance apart from the elongate member. The cutting edge is positioned distal to the base portion. The cutting edge that is positioned a distance apart from the elongate member has a length that is less than a diameter of the elongate member. The cutting element is capable of creating a notch in bone having a substantially semi-circular, arcuate shape. The width of the cutting element increases in a proximal to distal direction

Ruppert discloses the claimed invention except for (1) an inner lumen extending therebetween, the inner lumen being adapted to receive a guidewire (claim 1); (2) a handle extending in a direction transverse to a longitudinal axis of the elongate member disposed on a proximal portion of the elongate member (claims 14-15); and (3) a plurality of indicia formed on a distal portion of the elongate member and adapted to indicate a depth of the elongate member within a tunnel (claim 13).

Scholl discloses (1) an inner lumen extending therebetween, the inner lumen being adapted to receive a guidewire, (2) and a handle extending in a direction transverse to a longitudinal axis of the elongate member disposed on a proximal portion of the elongate member, and (3) a plurality of indicia formed on a distal portion of the elongate member and adapted to indicate a depth of the elongate member within a tunnel, to provide a chisel for removing material that can assess impaction into the material and can be used with a guide wire.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to construct the device of Ruppert with an inner lumen extending

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therebetween, the inner lumen being adapted to receive a guidewire, (2) and a handle extending in a direction transverse to a longitudinal axis of the elongate member disposed on a proximal portion of the elongate member, and (3) a plurality of indicia formed on a distal portion of the elongate member and adapted to indicate a depth of the elongate member within a tunnel in view of Scholl to provide a chisel for removing material that can assess impaction into the bone and can be used with a guide wire.

Claims 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ruppert (US 571,400) in view of Scholl (U.S. Patent No. 6,110,175) further in view of Boucher et al. (US 5,658,289).

Ruppert and Scholl disclose the claimed invention except for and (4) a locking mechanism comprising a threaded member disposed within a threaded bore formed in a handle, the threaded bore being in communication with the inner lumen of the elongate member is formed on the handle mated to the proximal end of the elongate member (claims 16-18).

Boucher et al. discloses a locking mechanism comprising a threaded member (ref. 30) disposed within a threaded bore formed in a handle extending in a direction transverse to a longitudinal axis of the elongate member disposed on a proximal portion of the elongate member, the threaded bore being in communication with the inner lumen of the elongate member is formed on the handle mated to the proximal end of the elongate member to secure the guide wire.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to construct the device of Ruppert and Scholl with a threaded

member disposed within a threaded bore formed in a handle, the threaded bore being in communication with the inner lumen of the elongate member is formed on the handle mated to the proximal end of the elongate member in view of Boucher et al. to secure the guide wire.

Response to Arguments

Applicant's arguments filed 01/22/2008 have been fully considered but they are not persuasive.

Applicant states that a woodworking tool would have no need to a guidewire. The examiner respectfully disagrees, since a guidewire would merely provide more accurate location of any tool. In addition, since guide wires are typically inserted before the tool, and the tool is the moved along the wire, the lumen would not become full of wood shavings. Moreover, Applicant has provided no evidence that a woodworking tool would not be suitable for bone. Arguments by counsel cannot take the place of evidence. In response to applicant's argument that the addition of a guide wire hole would reduce the structural integrity of the Rupert device, the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981). Moreover, as seen in evidentiary reference U.S. Patent 4,978,349 to Frigg, it is known in the art to incorporate

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lumens for guidewires into chisels (see FIGS. 7 and 8). Also, the front ends of the teeth appear to be arcuate, and the teeth increase in width from a proximal to distal direction.

The rejections are deemed proper.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARY HOFFMAN whose telephone number is (571)272-5566. The examiner can normally be reached on Monday-Friday 9:00-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo C. Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Mary C. Hoffman/
Examiner, Art Unit 3733

/Eduardo C. Robert/
Supervisory Patent Examiner, Art Unit 3733